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About

Weather threatens surface transportation nationwide and impacts roadway mobility, safety, and productivity. There is a perception that transportation managers can do little about weather. However, three types of mitigation measures—control, treatment, and advisory strategies—may be employed in response to environmental threats and impacts. For example, this may include road weather and traffic surveillance to monitor threats to system performance, arterial and freeway management to modify roadway capacity, as well as dissemination of advisory information to influence traveler decisions and driver behavior. These management practices are employed in response to various weather threats including fog, high winds, snow, rain, ice, flooding, tornadoes, hurricanes, and avalanches.

This CD contains case studies of systems and applications employed by traffic managers, emergency managers, and winter maintenance managers to improve roadway operations under inclement weather conditions. Each case study demonstrates the entire information thread, from environmental information to system performance information. This information thread begins with the observation and prediction of weather, road surface, traffic, and other environmental conditions to identify threats to transportation system performance. Based upon credible threat information, managers employ mitigation strategies that improve transportation outcomes. The CD also contains a list of acronyms, online resources, and a listing of road weather publications.

Click here to browse the CD





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- City of New York, New York Anti-Icing/Deicing System
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Adverse weather
Advisory strategy
Anti-icing/Deicing
Arterial management
Avalanche
Bridge
Chemicals

CCTV
Control strategy
Crashes
Decision support
DMS
Driver behavior
Dust

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Emergency Gates management HAR

FSS High

Evacuation

Flood warning system

Flooding

Fog Forecasts

Freeway Management

High-profile vehicles

Hurricane

Ice

Incidents

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Law enforcement
Lighting
Maintenance vehicle
Mobility
Motorist warning
system
Pavement condition
Pavement friction

Pavement sensor Pavement temp. Precipitation Productivity Rain Remote sensing RWIS

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Signal timing
Snow
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Speed Management
Tornado
Traffic control
Traffic management

Traveler information

Treatment strategy
Variable speed limit
Vehicle detection
Vehicle guidance
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- AVCS for Maintenance Vehicle Apps.
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- Benefit/Cost Study of RWIS and Anti-Icing Technologies
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- Documentation and Assessment of MN/DOT Gate Operations
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- Enhancements to the Virtual Weather Station Methodology
- Evaluation of a Fixed Anti-Icing Spray Technology (FAST) System
- Evaluation of Caltrans District 10 Automated Warning System: Year Two Progress Report
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 Highway: High-Tech Fog Warning System
 Developed at Georgia Tech Will Issue
 Advisories to Motorists
- Highway Deicing: Comparing Salt and Calcium Magnesium Acetate (Special Report: 235)
- Idaho Storm Warning System Op. Test
- Identification and Documentation of Weather and Road Condition
 Dissemination Devices and Data Formats
- Identification of Trigger Wind Velocities to Cause Vehicle Instability
- Improving Public Response to Hurricane Flooding
- Information on the Planning, Construction and Operation of Chemical Thawing Agent Spraying Installations
- Internet Technology-Based Road Information Systems







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Publications

This is a collection of publications related to road weather management. You can view publication titles, abstracts and source information.

Other Resources

This is a listing of web sites that contain information related to road weather management.

Titles (listed alphabetically)

- Iowa DOT Weather Information System to Support Winter Maintenance Ops.
- ITS Applications for Snow and Ice Control
- ITS Institutional Issues: A Maintenance/ Operations Perspective
- Life Cycle Cost-Benefit Model for RWIS
- Loss of Life in the United States
 Associated with Recent Atlantic Tropical
 Cyclones
- Management of Roads in Winter Using CCTV Cameras
- Manual of Practice for an Effective Anti-Icing Program: A Guide for Highway Winter Maintenance Personnel
- Measurement of Motorist's Relative
 Visibility Index (MRVI) Through Video
 Images







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Titles (listed alphabetically)

- Mobility and Safety Impacts of Winter Storm Events in a Freeway Environment: Final Report
- Modifying Signal Timing During Inclement
 Weather
- Multi-Functional Deployment of AHS Key Technology
- National Review of Hurricane Evacuation Plans and Policies: A Comparison and Contrast of State Practices: Draft
- Operator Interface Design of a Lane Awareness System for Snow Removal Operations
- Optimal Control of Variable Speed Limits and Road Lighting Based on Predicted Short Term Socio-Economic Impacts
- Percostation for Real Time Monitoring Moisture Variations, Frost Depth and Spring Thaw Weakening
- A Portable Method to Determine Chloride Concentration on Roadway Pavements







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Titles (listed alphabetically)

- Prediction of Daily Temperature Profile in Flexible Pavements
- Proceedings for the Weather Information for Surface Transportation: Delivering Improved Safety and Efficiency for Tomorrow
- Proceedings of the Workshop on Strategy for Providing Atmospheric Information
- Real Time Forecasting of Hurricane Winds and Flooding
- Remote Sensing and Emergency Management for Coastal Environmental Disasters
- Remote Sensing for Transportation: Report of a Conference
- Reunion Island's Merlin Project: An ITS Implementation Success Story
- Review of the Institutional Issues Relating to RWIS: Final Report







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Titles (listed alphabetically)

- RWIS: Enabling Proactive Maintenance Practices in Washington State
- RWIS: Some Findings on How RWIS Information Should be Disseminated
- Road Weather Requirements: Exec. Sum.
- Rural Freeway Management During Snow Events—ITS Application
- Rural ITS Applications for Snow Maint. and Winter Hazard Mitigation
- Signs of Rain
- Snow & Ice Control Operations
- Snow Emergency Vehicle Routing with Route Continuity Constraints
- Socioeconomic Impacts of Heavy Precipitation in the United States







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- Southeast United States Hurricane Evacuation Traffic Study
- State of the Practice and Review of the Literature: Survey of Fog Countermeasures Planned Or in Use by Other States
- Surface Transportation Weather Apps.
- Surface Transportation Weather Decision Support Requirements
- Synthesis of Road Weather Forecasting
- System Monitors Flood-Prone Creeks
- Temperature and Humidity Effects on the Co-Efficient of Friction Value After Application of Liquid Anti-Icing Chemicals
- Testing the Adverse Visibility Information System Evaluation (ADVISE)—Safer Driving in Fog







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Titles (listed alphabetically)

- The Advanced Transportation Weather Information System (ATWIS)
- The Effect of Variable Message Signs on the Relationships Between Mean Speeds and Speed Derivations
- The Effect of Weather on Free Flow Speed
- The Measurement and Theory of Tire Friction on Contaminated Surfaces
- The Use of Abrasives in Winter Maintenance: Final Report of Project TR 434
- The Use of Mobile Video Data Collection Equipment to Investigate Winter Weather Vehicle Speeds
- Traffic Modeling Framework for Hurricane Evacuation
- TRAVELAID
- Use of Expert Systems for Roadway Weather Maintenance Decisions







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- Use of Pavement Temperature Measurements for Winter Maintenance Decisions
- Variable Speed Control: Technologies and Practice
- Video Cameras Focus on Visibility
- Vision and Challenges of Integrating Traffic Management and Emergency Response Systems
- Weather Based Traffic Management Applications in Nevada
- Weather in the Info-Structure
- Weather Information for Surface Transportation (WIST I): Establishing the National Needs and Requirements
- Weather Information for Surface Transportation (WIST II): Establishing the National Needs and Requirements
- Weather: A Research Agenda for Surface Transportation Operations









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Titles (listed alphabetically)

- Weather: Making it a National Priority in Surface Transportation
- White Paper: An Integrated Network of Transportation Information
- Winter Maintenance in Thompson Falls (Memorandum)
- Winter Operations Weather Forecasts: Do They Work for the Maintenance Shed Supervisor?
- Winter Storm Event Volume Impact Analysis Using Multiple Source Archived Monitoring Data

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Titles (listed alphabetically)

- A-D Keyword
- E-I Keyword
- J-R Keyword
- S-Z Keyword
 - Custom Keyword





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Search (by keyword)

■ A-D Keyword

Access restriction Adverse weather

Air temperature

Anti-icing/deicing

Arterial management

Avalanche

Benefits

Benefit/Cost

Bridge

■ E-I Keyword

■ J-R Keyword

■ S-Z Keyword

Custom Keyword

Capacity Chemicals

CCTV

Communications

Costs Crashes

Decision Support

DMS

Driver behavior





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Search (by keyword)

■ A-D Keyword

E-I Keyword

Emergency mgmt.

Environment

FSS.

Evacuation

Flood warning sys.

Flooding

Fog

Forecasts

■ J-R Keyword

- 5-Z Keyword
- Custom Keyword

Freeway mamt.

Gates

Humidity

Hurricane

Incidents

Institutional issues

Internet/Web site



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Search (by keyword)

- A-D Keyword
- E-I Keyword
 - J-R Keyword

Landslide Law enforcement

Lighting

Maintenance veh.

Mobile sensing Mobility

Motorist warning sys. Route choice

Pavement condition

- S-Z Keyword
- Custom Keyword

Pavement friction Pavement temp. Precipitation Productivity

Rain **RWIS**





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Titles (listed alphabetically)

Search (by keyword)

- A-D Keyword
- E-I Keyword
- J-R Keyword

S-Z Keyword

Safety
Signal timing
Snow
Speed
Thermal mapping
Traffic control
Traffic mgmt.
Traffic modeling

Traveler information

Custom Keyword

Variable speed limit Vehicle detection Vehicle guidance

Visibility Volume

Weather information

Wind

Winter maintenance

Winter storm





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Other Resources (print entire list)

This is a listing of web sites that contain information related to road weather management.

- ─ FHWA Road Weather Management Program
 - Maintenance Decision Support System (MDSS)
 - ITS Resource Guide
 - ITS America
- Aurora Program
- Enterprise Program
- Evacuation Traffic Information System (ETIS)
- Snow and Ice Cooperative Program (SICOP)
- Cooperative Program for Operational Meteorology, Education and Training (COMET)
- Office of the Federal Coordinator for Meteorology (OFCM)
- American Meteorological Society (AMS)
- National Weather Service (NWS)
- National Weather Service Tropical Prediction Center, National Hurricane Center
- World Road Association (PIARC)
 - Standing International Road Weather Commission (SIRWEC)





		поте	Acronyms About
AFWS	Automated Flood Warning System	DSS	Decision Support System
AASHTO	American Association of State Highway	EOC	Emergency Operations Center
A.T.I.O.	and Transportation Officials	ESS	Environmental Sensor Station
ATIS	Advanced Traveler Information System	FHWA	Federal Highway Administration
ATMS	Advanced Traffic Management System	GPS	Global Positioning System
AVCS	Advanced Vehicle Control System	HAR	Highway Advisory Radio
B/C	Benefit/Cost	HAZMAT	Hazardous Material
BMP	Best Management Practice	ISP	Information Service Provider
CCTV	Closed Circuit Television	ITS	Intelligent Transportation System
CDPD	Cellular Digital Packet Data	MMDI	Metropolitan Model Deployment Initiative
CMAQ	Congestion Mitigation and Air Quality	NCHRP	National Cooperative Highway
DMS	Dynamic Message Sign	NIVA/C	Research Program
DOT	Department of Transportation	NWS	National Weather Service
DPS	Department of Public Safety	OFCM	Office of the Federal Coordinator for Meteorology
DSL	Digital Subscriber Line	OK-FIRST	Oklahoma's First-response Information Resource System using Telecommunications
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OLETS	Oklahoma Law Enforcement	US	United States
PC	Telecommunications System Personal Computer	USDOT	United States Department of Transportation
PVC	Polyvinyl Chloride	UTCS	Uniform Traffic Control System
RPU	Remote Processing Unit	VHF	Very High Frequency
RWIS	Road Weather Information System	VSL	Variable Speed Limit
SCADA	Supervisory Control And Data Acquisition	WAN	Wide Area Network
SHEP	State Highway Emergency Patrol		
STC	Smart Traffic Counter		
TCC	Traffic Control Center		
TOC	Traffic Operations Center		
TMC	Traffic Management Center		
TRIS	Transportation Research Information Services		
UHF	Ultra-High Frequency		
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About

The Best Practices for Road Weather Management CD, released in August 2002, contains resources to help traffic, emergency and maintenance managers learn how to mitigate the impact of weather threats on roadways. The CD contains:

- Case studies employed in response to various weather threats including fog, high winds, snow, rain, ice, flooding, tornadoes, hurricanes, and avalanches;
- Listing of road weather publications;
- Acronyms list; and
- Online resources.

For Additional Information

Paul Pisano, Team Leader, Road Weather Management, FHWA.

- 202-366-1301
- paul.pisano@fhwa.dot.gov

Lynette Goodwin, Sr. Transportation Engineer, Mitretek Systems

- 202-488-3033
- lynette.goodwin@mitretek.org

Road Weather Management program: www.ops.fhwa.dot.gov/weather

ITS Joint Program Office: www.its.dot.gov

Office of Transportation Operations: http://www.ops.fhwa.dot.gov/Traffic/

Disclaimer

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